

Product Information

Preliminary Product Information

VESTAMID® HT*plus* M3000 natural color

Polyphthalamide based on PA 10T

VESTAMID HT*plus* M3000 nc is a natural colored PA 10T-based copolyamide. PA 10T is a polycondensation product of 1,10-decamethylene diamine (10) and terephthalic acid (T). As 1,10-decamethylene diamine is derived from castor oil, VESTAMID HT*plus* M3000 nc is partially natural resourced and thus bio-based.

Compared to PA 6T-based resins VESTAMID HT*plus* M3000 nc has a broader processing window as well as a reduced tendency to absorb water. Therefore the material exhibits less variation in mechanical properties and dimensional changes with humidity.

The resin is especially suited for manufacturing parts subjected to high temperature.

VESTAMID HT*plus* M3000 nc is supplied as spherical pellets in polyethylene packaging.

Drying at 120°C for at least 4 hours before processing is recommended.

Property	Test method		Unit	VESTAMID HT <i>plus</i> M3000 nc	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.1
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at break		ISO 527-2	DIN EN ISO 527-2	MPa	73
Strain at break				%	5
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	2700
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	60 C ¹⁾
	-40°C			kJ/m ²	60 C ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	6.4 C ¹⁾
	-40°C			kJ/m ²	5.5 C ¹⁾
Temperature of deflection under load		ISO 75-1	DIN EN ISO 75-1		
		ISO 75-2	DIN EN ISO 75-2		
Method A	1.8 MPa			°C	128
Method B	0.45 MPa			°C	225
Melting point		ISO 11357			
DSC	2 nd heating			°C	approx. 285

Pigmentation may affect values.

¹⁾ C = Complete break, incl. hinge break H